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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/829,793	04/10/2001	Martijn Johannes Lambertus Emons	NL 000215	1893
24738	7590 09/08/2004		EXAM	INER
PHILIPS ELECTRONICS NORTH AMERICA CORPORATION INTELLECTUAL PROPERTY & STANDARDS			KIM, HONG CHONG	
	Y DRIVE, M/S-41SJ	ANDARDS	ART UNIT	PAPER NUMBER
	SAN JOSE, CA 95131		2186	

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner		Application No.	Applicant(s)
Examiner Hong C kim 2188	Office Action Summany	09/829,793	
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of the margh is available under the provisions of 3 CFR 1.13(6). In role event, inverser, may a reply be timely field the period for reply is goodine under the provisions of 3 CFR 1.13(6). In role event, inverser, may a reply be timely field in the period for reply is goodine down, the marking of 3 CFR 1.13(6). In role event, inverser, may a reply be timely field in the period for reply is goodine down, the marking of 3 CFR 1.13(6). In role event, inverser, may a reply be timely field of reply in the controller provided p	Onice Action Guillinary	Examiner	Art Unit
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Detailed Action

1. Claims 6-8 are presented for examination. This office action is in response to the amendment filed on 6/29/04.

Claim Rejections - 35 USC § 102/103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 6-8 are rejected under 35 U.S.C. 102(b) as being unpatentable over Fuller US Patent 5,632,038 or, in the alternative, under 35 U.S.C. 103(a) as being unpatentable over Fuller US Patent 5,632,038 in view of Yamahata US Patent No. 5,247,639.

As to claim 6, Fuller discloses a cache interface circuit, comprising: a processor interface (Fig. 1 lines between processor and cache controller and col. 3 lines 10-12, col. 4 lines 11-12, & col. 4 lines 52-53); a main memory interface (Fig.1 lines between system memory and cache controller and col. 3 lines 10-12); a cache memory interface (Fig. 1 lines between cache memory and cache controller and col. 3 lines 10-12); a cache-bypass mode control signal input (col. 3 lines 25-28), in response to a programmer instruction inserted in a program being executed by the processor (Since a control and power management logic (Fig. 2 Ref. 60) is controlled by the processor (Fig. 2 Ref. 50), the instruction is generated from the processor to control the cache memory

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power); a power control output for switching off (col. 6 line 10, turn the cache off reads on this limitation).

Even if in response to a programmer instruction inserted in a program being executed by the processor does not specifically discloses by the Fuller. Claims 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fuller US Patent 5,632,038 in view of Yamahata US Patent No. 5,247,639.

Fuller discloses a cache interface circuit, comprising: a processor interface (Fig. 1 lines between processor and cache controller and col. 3 lines 10-12, col. 4 lines 11-12, & col. 4 lines 52-53); a main memory interface (Fig.1 lines between system memory and cache controller and col. 3 lines 10-12); a cache memory interface (Fig. 1 lines between cache memory and cache controller and col. 3 lines 10-12); a cache-bypass mode control signal input (col. 3 lines 25-28); a power control output for switching off (col. 6 line 10, turn the cache off reads on this limitation).

Eve if Fuller does not specifically disclose a cache-bypass mode control signal input, in response to a programmer instruction inserted in a program being executed by the processor.

It was common knowledge in memory art to send an instruction to bypass a cache. For example, Yamahata discloses a cache-bypass mode control signal input, in response to a programmer instruction inserted in a program being executed by the processor (col. 2 lines 22-26) for the purpose of increasing processing speed and saving power.

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Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate a cache-bypass mode control signal input, in response to a programmer instruction inserted in a program being executed by the processor as shown in Yamahata into the invention of Fuller for the advantages stated above.

As to claim 7, Fuller further discloses a cache-bypass mode program instruction (col. 4 lines 23-25 and 33-35) wherein said processor need not take any action to switch between said cache and cache-bypass modes (Fig. 2 Ref. 60, separate control and power management logic reads on this limitation). Yamahata further discloses a cache-bypass mode program instruction (col. 2 lines 22-26).

As to claim 8, Fuller further discloses a sequence of program instruction disposes in said main memory (instructions read on this limitation, since an instruction or a program is loaded into the main memory and executed by a processor) that require execution by the processor in said cache mode (col. 5 lines 23-35) and that are bracketed by program instructions acted on by the cache-bypass mode program instruction (col. 4 lines 23-25 and 33-35). Yamahata further discloses a sequence of program instruction disposes in said main memory (col. 2 lines 22-26, instructions read on this limitation, since an instruction or a program is loaded into the main memory and executed by a processor).

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Response to Amendment

3. Applicant's arguments filed on 6/29/04 have been fully considered but they are not persuasive.

Applicant's argument on page 4 that the reference does not disclose cache by pass instruction is generated in response to a programmer instruction inserted in a program being executed by the processor is not considered persuasive.

Fuller discloses a cache-bypass mode control signal input (col. 3 lines 25-28), in response to a programmer instruction inserted in a program being executed by the processor (Since a control and power management logic (Fig. 2 Ref. 60) is controlled by the processor (Fig. 2 Ref. 50), the instruction is generated from the processor to control the cache memory power).

Yamahata also discloses in response to a programmer instruction inserted in a program being executed by the processor (col. 2 lines 22-26) for the purpose of increasing processing speed and saving power.

Therefore broadly written claims are disclosed by the references cited.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See attached PTO-892.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

When responding to the office action, Applicant is advised to clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. He or she must also show how the amendments avoid such references or objections. See 37 C.F.R. ' 1.111(c).

When responding to the office action, Applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist examiner to locate the appropriate paragraphs.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hong C Kim whose telephone number is 703-305-3835. The examiner can normally be reached on M-F 9:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt M Kim can be reached on (703) 305-3821.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to TC-2100: 703-872-9306

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

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HK

Primary Patent Examiner September 6, 2004